

dunetpc - Bug #20989

ps returns truncated command line in dune/ArtSupport/DuneToolManager.cxx

10/02/2018 09:51 AM - Thomas Junk

Status:	Feedback	Start date:	10/02/2018
Priority:	Normal	Due date:	
Assignee:	David Adams	% Done:	0%
Category:		Estimated time:	0.00 hour
Target version:			
Description			
In n dune/ArtSupport/DuneToolManager.cxx, this line sscom << "ps -fp " << pid << " "> << sftmp; is used to determine the command line and arguments. Problem is, the ps command truncates its output based on the value of the COLUMNS environment variable, leaving a partial string of arguments. This is becoming more common with /cvmfs pathnames.			

History

#1 - 10/22/2018 06:02 PM - Tingjun Yang

David, would you fix this?

#2 - 10/23/2018 07:28 AM - David Adams

What value do we need for COLUMNS?

#3 - 10/23/2018 09:05 AM - David Adams

When I redirect "ps -fp", e.g. when I run

```
ps -fp 59986 >tmp.tmp
```

on dunegpvm or my desktop, I do not see a limit from COLUMNS. I do if I do not redirect, I do see the truncation.

Where are you seeing a problem?

#4 - 10/23/2018 11:33 AM - Thomas Junk

If I run Jason's example (see the slack thread under larsoft), and put a breakpoint in DuneToolManager.cxx after the temporary file is created with the output of ps, I see output truncated at 80 characters.

```
<dunegpvm08.fnal.gov> cat /dune/data/users/trj/dumptest/tmpproc29642.tmp
UID      PID  PPID  C STIME TTY      TIME CMD
trj    29642 29640  3 11:22 ?        00:00:05 /cvmfs/larsoft.opensciencegrid.o
```

#5 - 10/23/2018 12:03 PM - Thomas Junk

Suggested bugfix:

```
sscom << "ps -fwwp " << pid << " "> << sftmp;
```

#6 - 10/23/2018 12:24 PM - David Adams

- Status changed from New to Feedback

I have not been able to reproduce the problem but I added the "ww" argument and it causes me no problem.

I will wait a couple day and close this if there are no complaints from Jenkins.